| Inde | ex of ( | Claims |  |
|------|---------|--------|--|
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| Application | /Control No. |
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10/552,583

10/552,58 Examiner

Benjamin P. Lee

| Applicar | it(s)/Paten | t under |
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| Reexami  | nation      |         |

ROLLER ET AL.

Art Unit

3641

| √ | Rejected |
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| _ | (Through numeral)<br>Cancelled |
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Restricted

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|              |          |            |          |          |              |              |  |  |                 |           |     |          |          |                 | _   |  |          |          |           |          |    |          |            |          |                 |   |          |          |                   |           |              |          |
|--------------|----------|------------|----------|----------|--------------|--------------|--|--|-----------------|-----------|-----|----------|----------|-----------------|---|--|----------|----------|-----------|----------|----|----------|------------|----------|-----------------|---|----------|----------|-------------------|-----------|--------------|----------|
| Cla          | aim      | Date       |          |          |              |              |  | Claim Date                                       |                 |           |     |          |          |                 |   | _  | CI       | aim_     | Date      |          |    |          |            |          |                 |   |          |          |                   |           |              |          |
| Final        | Original | 10/13/06   | 2/28/07  | •        |              |              |  |  |                 |           |     | Final    | Original |                 |   |  |          |          |           |          |    | Final    | Original   |          |                 |   |          |          |                   |           |              |          |
|              | 1        | 1          | 1        |          |              | 1            | 1  |  | П               |           |     |          | 51       | П               | 寸   | $\top$   | 1        | _        |           |          | ٦  |          | 101        | 1        |                 | _   |          |          |                   | $\exists$ |              | コ        |
|              | 2        | 1          | 1        |          |              |              |  |  |                 |           |     |          | 52       |                 |   |  |          |          |           |          | 1  |          | 102        |          |                 |   |          |          |                   | П         |              | $\neg$   |
|              | 3        | 1          | 1        |          | П            |              |  |  |                 |           |     |          | 53       |                 |   |  |          |          |           |          |    |          | 103        | Г        | П               |   |          |          |                   |           |              | 一        |
|              | 4        | 1          | V        |          |              |              |  |  |                 |           |     |          | 54       |                 |   |  |          |          |           |          | ]  |          | 104        |          |                 |   |          |          |                   | $\Box$    |              |          |
|              | 5        | 0          | 0        |          | L            | _            |  |  |                 |           |     |          | 55       |                 |   |  |          |          |           |          |    |          | 105        |          |                 |   |          |          |                   |           |              |          |
|              | 6        | 0          | 0        | 匚        | <u> </u>     | _            | <u> </u>   |  | Ш               |           |     |          | 56       |                 |   |  |          |          |           |          | _] | L        | 106        |          |                 |   |          |          |                   |           |              |          |
|              | 7        | √          | V        | <u> </u> | ļ            | _            | <u> </u>   |  |                 |           |     |          | 57       |                 | $\perp$   |  |          |          |           | $\perp$  |    | L_       | 107        |          | Ш.              | ┙   |          |          |                   |           |              |          |
|              | 8        | 1          | 1        | <u> </u> | <u> </u>     | _            |  |  |                 |           |     |          | 58       |                 | $\perp$   |  | 1        | L        |           | _        |    | <u></u>  | 108        |          | $\Box$          | _   | _        |          |                   | $\dashv$  |              | _        |
|              | 9        | 0          | Ò        | _        | 1            | <u> </u>     |  | L  | ļi              |           |     |          | 59       | $\perp$         | $\perp$   |  | <u> </u> | L        |           | $\perp$  |    |          | 109        |          |                 |   | _        |          |                   | _         |              |          |
|              | 10       | 1          | 1        |          | _            |              |  |  |                 |           |     |          | 60       | $\sqcup$        | $\perp$   | _  | _        |          |           | _        | 4  |          | 110        | <u> </u> | $\perp$         | _   | _        | _        | _                 | _         | _            |          |
|              | 11       | 1          | 1        | <u> </u> | ┡            | -            | <u> </u>   | -  | -               |           |     |          | 61       | $\vdash$        |   | -  | +        | _        |           | _        | 4  |          | 111        | _        | $\vdash$        | _   | $\dashv$ |          | $\dashv$          | $\dashv$  | _            | _        |
| -            | 12       | 1          | 1        | -        | ├-           | ╂—           | <b> </b>   | ┼  |                 |           | -   |          | 62       | $\vdash \vdash$ | -   | - -  | +        | $\vdash$ |           | _        | -  |          | 112        | <u> </u> | $\vdash \vdash$ |   | _        |          | _                 | +         | _            |          |
| -            | 13<br>14 | 1          | 1        | H        | $\vdash$     | 1            |  | $\vdash$   | $\vdash \vdash$ | _         | -   |          | 63<br>64 | $\vdash \vdash$ | +   | +  | +        | -        | -         |          | -  | -        | 113<br>114 | $\vdash$ | $\vdash$        | $\dashv$  | _        | _        |                   | $\dashv$  | -            | _        |
|              | 15       | 7          | 1        |          | ┢            | -            | -  | -  | $\vdash$        |           | -   |          | 65       | $\dashv$        | +   | +  | +        | ├-       |           |          | -  |          | 115        |          | $\vdash$        | $\dashv$  | $\dashv$ | $\dashv$ | $\dashv$          | $\dashv$  | $\dashv$     | $\dashv$ |
| -            | 16       | \ <u>\</u> | 1        |          | $\vdash$     | +            | $\vdash$   | $\vdash$   | -               |           |     |          | 66       | $\dashv$        | +   | +  | +-       | -        |           |          | -  | -        | 116        | $\vdash$ | $\dashv$        | $\dashv$  | -        |          | $\dashv$          | +         | $\dashv$     | $\dashv$ |
|              | 17       | 1          | V        | -        | ╀            | ╁            | ├  | ┢  | $\vdash$        |           | ĺ   |          | 67       | -+              | +   | _  | +        | H        |           | -        | +  | -        | 117        | -        | -               | -   | -        | $\dashv$ | $\dashv$          | -         |              | ᅴ        |
|              | 18       | o          | ō        | —        | ╁╾           | $\vdash$     | $\vdash$   | <del>                                     </del> | $\vdash$        | _         | 1   |          | 68       |                 | +   | +  | +        | $\vdash$ | $\dashv$  | +        | ╣  | <b>-</b> | 118        | $\vdash$ |                 | -+  |          | ᅱ        | $\dashv$          | $\dashv$  | $\dashv$     | -        |
|              | 19       | 0          | ō        | _        | <del> </del> | ╁┈           | ┝  |  | H               |           | ŀ   |          | 69       | $\dashv$        | +   | +  | ╁        | $\vdash$ | $\dashv$  | _        | ┨  | <u> </u> | 119        | -        | -               | -   |          | $\dashv$ | $\dashv$          | _         |              |          |
|              | 20       | 0          | ō        |          | $\vdash$     | $\vdash$     | ┢  | ├-   | <del>   </del>  | -         | 1   |          | 70       | - t             | +   | +  |          | -        | -         | -        | ┨  | $\vdash$ | 120        |          | -               | -   | _        | $\dashv$ | $\dashv$          | +         | $\dashv$     | _        |
|              | 21       | Ť          | Ť        |          | <b>†</b>     | <del> </del> | <del> </del>                                     | ┢  | H               |           |     |          | 71       |                 | +   | +  |          |          | $\dashv$  | -        | ┪  |          | 121        |          | -               | -   |          |          | _                 | $\dashv$  | $\dashv$     |          |
| -            | 22       |            | <u> </u> | _        | ┢            | $\vdash$     | $\vdash$   |  |                 |           |     |          | 72       |                 | $\dashv$  | $\top$   |          |          | $\dashv$  | _        | 1  | _        | 122        |          |                 | -+  |          | _        | $\neg$            | $\dashv$  | 7            |          |
|              | 23       |            |          |          |              | Т            |  |  |                 |           | ŀ   |          | 73       |                 | _   | _ _  | $\top$   |          | $\neg$    | _        | 1  |          | 123        |          |                 | _   |          |          | 寸                 | $\neg$    | _            |          |
|              | 24       |            |          |          |              | 1            | 1  | T  |                 |           | ľ   |          | 74       |                 | $\top$  | $\top$   |          |          | $\exists$ |          | Ϊ. |          | 124        |          |                 | $\neg$  |          |          | $\neg$            | $\dashv$  | ┪            | $\neg$   |
|              | 25       |            |          | _        | 一            | T            |  |  |                 |           | Ī   |          | 75       |                 | 1   |  |          |          |           | _        | 1  |          | 125        |          |                 | T   |          | 一        | ヿ                 | ヿ         | ヿ            |          |
|              | 26       |            |          |          |              |              |  |  |                 |           |     |          | 76       |                 |   |  | 1        | •        | T         |          |    |          | 126        |          |                 |   |          | ヿ        |                   | T         | $\neg$       |          |
|              | 27       |            |          |          |              |              |  |  |                 |           |     |          | 77       |                 | Т   |  |          |          |           |          |    |          | 127        |          |                 |   |          |          |                   | $\neg$    |              |          |
|              | 28       |            |          |          |              |              |  |  |                 |           |     |          | 78       |                 |   |  |          |          |           |          | ]: |          | 128        |          |                 |   |          |          | $\Box$            | $\Box$    |              |          |
|              | 29       |            |          |          |              |              |  |  | Ш               |           | ,   |          | 79       |                 |   |  |          |          |           |          |    |          | 129        |          |                 |   |          |          |                   |           |              |          |
|              | 30       |            | _        |          |              |              | <u> </u>   | L  |                 |           |     |          | 80       |                 |   | <u> </u>   | ↓_       |          |           |          |    |          | 130        |          |                 |   |          |          |                   |           | _            |          |
| $oxed{oxed}$ | 31       |            | _        |          |              | <u> </u>     |  |  | Ш               |           |     |          | 81       | $\perp$         |   |  | $\perp$  | Ц        | _         |          | _  |          | 131        |          |                 | $\perp$   | _        | _        |                   | $\dashv$  | 4            |          |
| <u> </u>     | 32       |            |          |          | _            | <u> </u>     | ļ  |  |                 |           |     |          | 82       |                 | _   |  | ╀        |          |           | _        | 4  |          | 132        |          |                 | _   | _        |          |                   | _         | _            | _        |
|              | 33       |            |          |          | _            | ├_           | ┡  | _  | $\vdash \vdash$ |           | - } |          | 83       | $\dashv$        |   | _  | ╁        |          |           | -        | 4  |          | 133        |          | -               | -   | _        | _        | _                 | $\dashv$  | _            | _        |
|              | 34<br>35 |            |          |          | -            |              |  | <u> </u>   | $\vdash$        |           | -   |          | 84       | -               | +   | +  | +        | Н        |           | -        | -  | <u> </u> | 134        | -        |                 | -   | _        |          |                   | $\dashv$  | _            | 4        |
|              | 36       |            | _        |          | ├—           | ├            | -  | -  | H               |           | F   |          | 85<br>86 | $\dashv$        | +   | +  | +-       | _        |           | $\dashv$ | 4  | $\vdash$ | 135<br>136 |          | -               | $\dashv$  |          | -        |                   | $\dashv$  |              |          |
| $\vdash$     | 37       | _          | _        | —        |              | ├            | -  | H  | $\vdash$        | -         | F   |          | 87       |                 | +   | -  | +-       | $\vdash$ | $\dashv$  | _        | -  | $\vdash$ | 137        | -        | $\dashv$        | $\dashv$  | -        |          | -                 | $\dashv$  | -            | ᅴ        |
|              | 38       |            |          | -        |              | ├─           | -  |  | Н               | $\dashv$  | ŀ   |          | 88       | +               | +   | +  | +        | Н        | -         | +        | 1  |          | 138        |          | $\dashv$        | +   |          | -        | -                 | $\dashv$  | $\dashv$     | $\dashv$ |
|              | 39       |            |          |          | ┝            | ├─           | <del>                                     </del> |  | $\vdash$        | -         | ŀ   |          | 89       | $\dashv$        | +   | +  | +        | $\vdash$ |           | +        | ┨  |          | 139        |          | $\dashv$        | $\dashv$  |          | -        | -                 | $\dashv$  |              | -        |
|              | 40       |            | _        |          | ╌            | ╁╌           |  |  | H               |           | F   | _        | 90       | $\dashv$        | +   | +  | ╁╌       | -        | $\dashv$  | +        | ┨  |          | 140        | $\dashv$ | $\dashv$        | $\dashv$  | +        | $\dashv$ | $\dashv$          | $\dashv$  | $\dashv$     | ᅱ        |
|              | 41       | _          |          |          | $\vdash$     | $\vdash$     | $\vdash$   | <del> </del>                                     |                 | -         | ŀ   |          | 91       | $\dashv$        | $\dashv$  | +  | +        | Н        | -         |          | ┨  | -        | 141        | $\vdash$ | $\dashv$        | $\dashv$  | $\dashv$ | -        |                   | $\dashv$  | $\dashv$     | $\dashv$ |
|              | 42       | _          |          |          |              |              | <del>                                     </del> |  | $\vdash$        | $\dashv$  | ŀ   | $\dashv$ | 92       | $\dashv$        | -   | _  | +-       | Н        | +         |          | 1  |          | 142        | $\dashv$ |                 | +   |          | $\dashv$ | $\dashv$          | $\dashv$  | +            | $\dashv$ |
|              | 43       |            |          |          | $\vdash$     | T            | <u> </u>   |  | H               |           | f   |          | 93       | $\dashv$        | 十   | +  | 1        | Н        | _         |          | 1  |          | 143        |          | $\neg +$        | $\dashv$  | $\dashv$ | $\dashv$ | _                 | 十         | 7            | $\dashv$ |
|              | 44       |            |          | _        |              |              | $\vdash$   |  | Н               | $\exists$ | l   |          | 94       |                 | +   | +  | 1        | Н        | 7         | $\top$   | 1  |          | 144        |          | $\dashv$        | $\dashv$  | $\dashv$ | $\dashv$ | 7                 | $\dashv$  | 7            | $\dashv$ |
|              | 45       |            |          |          |              |              | $\Box$   |  | $\Box$          |           |     |          | 95       | $\dashv$        | 十   | $\top$   | 1        |          | _         | $\top$   | 1  |          | 145        |          | $\dashv$        | $\top$  | 7        | 7        | 一                 | $\dashv$  | 十            | ヿ        |
|              | 46       |            |          | _        | Г            |              |  |  |                 |           | Ī   |          | 96       | _               | $\dashv$  | $\top$   | T        |          | _         | _ -      | 1  |          | 146        |          | 7               | 7   |          | ┪        | 1                 | 十         | 7            | ヿ        |
|              | 47       |            |          |          |              |              |  |  |                 |           | Ī   |          | 97       | $\neg$          | $\top$  |  |          |          |           |          | 1  |          | 147        |          |                 | $\dashv$  | $\dashv$ | ╗        |                   | $\dashv$  |              | $\neg$   |
| ·            | 48       |            |          |          |              |              |  |  |                 |           | Ī   |          | 98       | _               |   |  |          |          |           |          | ]  |          | 148        |          |                 | $\Box$  | _1       |          |                   | $\Box$    | _1           | $\Box$   |
|              | 49       |            |          |          |              |              |  |  |                 |           |     |          | 99       |                 | $oldsymbol{oldsymbol{oldsymbol{oldsymbol{\Box}}}$ | $oxed{\Box}$   | L        |          |           |          |    |          | 149        |          |                 |   |          | J        |                   |           | $\Box$       |          |
|              | 50       |            |          |          |              |              |  |  |                 |           |     |          | 100      | $oxed{oxed}$    | $oldsymbol{oldsymbol{oldsymbol{oldsymbol{\Box}}}$ | $oldsymbol{ol}}}}}}}}}}}}}}$ |          |          |           |          | ]  |          | 150        |          | $\Box$          | $oldsymbol{ol}}}}}}}}}}}}}}}$ | $\Box$   | $\Box$   | $oldsymbol{\bot}$ | $\Box$    | $oxed{oxed}$ |          |
|              | •        |            |          | _        |              |              |  |  |                 |           | _   |          |          |                 |   |  |          |          |           |          | _  |          |            |          |                 |   |          |          |                   |           |              | _        |